

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/998,465	11/30/2001	Paul A. Fleenor	HE0170	5679
21495	7590	02/26/2004	EXAMINER	
CORNING CABLE SYSTEMS LLC			WOOD, KEVIN S	
P O BOX 489			ART UNIT	
HICKORY, NC 28603			PAPER NUMBER	
			2874	

DATE MAILED: 02/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/998,465

Applicant(s)

FLEENOR ET AL.

Examiner

Kevin S Wood

Art Unit

2874

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 November 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 1103.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. This action is responsive to the Amendment filed on 14 November 2003. No new claims have been added. No claims have been amended and no claims have been canceled. Claims 1-23 are currently pending in the application.
2. The Declaration filed on 14 November 2003 under 37 CFR 1.131 has been considered but is ineffective to overcome the Holter et al. reference (U.S. Patent No. 6,542,673) and the Clark reference (U.S. Patent Application Publication No. 2002/0003934) for claims 1-23.
3. The evidence submitted is insufficient to establish a reduction to practice of the invention prior to the effective date of the Holter et al. reference and the Clark reference. The examiner has thoroughly reviewed the declaration and has found that there is insufficient evidence that claims 5, 7, 13, 14, 15 and 19 were conceived and reduced to practice by the Applicants prior to the effective date of the references. The e-mail that has been submitted as proof that the Applicants had conceived and reduced to practice the inventions of claims 1-23 is insufficient, therefore the rejections based on the Holter et al. reference and the Clark reference have not been overcome.

Response to Arguments

4. Applicant's arguments, filed on 14 November 2003, with respect to the rejection(s) of claim(s) 1-23 under 35 U.S.C. 102 and 103 have been fully considered

Art Unit: 2874

and are not persuasive. Therefore, the rejections have been maintained. The applicant has not provided sufficient evidence that the entire invention claimed within claims 1-23 was conceived and reduced to practice prior to the effective date of the references. Specifically the Rosson e-mail fails to show that the limitations of claims 5, 7, 13, 14, 15 and 19 had been conceived prior to the effective date of the references. Based on this the examiner has found the declaration to be insufficient and has maintained the rejections of claims 1-23.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-4, 6, 7, 9-12, 15-18 and 20-23 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,542,673 to Holter et al.

Referring to claim 1, Holter et al. discloses all the limitations of the claimed invention. Holter et al. discloses a ferrule body (304) defining a forward end (304a), and opposed rearward end, and at least one passageway extending between the forward end and the rearward end; and a fiber optic indicia (310) formed on a predetermined portion

of a surface of the ferrule, wherein the fiber optic indicia comprises a predetermined pattern associated with data about the fiber optic assembly, wherein the data comprises at least one of an optical characteristic and a product characteristic. See Fig. 3-4, and their respective portions of the specification.

Referring to claims 2-4, Holter et al. discloses all the limitations of the claimed invention. Holter et al. discloses the indicia (310) are located on and near the end face of the ferrule and the passageway has an opening that is located at the forward end of the ferrule body (304). See Fig. 3-4, and their respective portions of the specification.

Referring to claims 6 and 7, Holter et al. discloses all the limitations of the claimed invention. Holter et al. discloses an optical fiber (302) extending at least partially through the at least one passageway such that an end portion of the optical fiber is exposed to a filter (306) at an end face of the forward end of the ferrule. Holter et al. also discloses that optical fibers (100) may have indicia located on the end face of the optical fibers. See Fig. 1-4, and their respective portions of the specification.

Referring to claim 9, Holter et al. discloses all the limitations of the claimed method. Holter et al. discloses a method of marking a fiber optic component including the steps of: establishing a predetermined pattern of a fiber optic indicia, wherein the fiber optic indicia is associated with information about the fiber optic component; providing the component for marking; preparing a predetermined portion of the surface of the component for marking; and marking the predetermined portion of the surface in accordance with the predetermined pattern of the fiber optic indicia. See Fig. 3-4, and their respective portions of the specification.

Referring to claims 10 and 11, Holter et al. discloses all the limitations of the claimed method. Holter et al. discloses that the fiber optic indicia may be an alphanumeric character and that the fiber optical indicia comprise at least one symbol. See figures of the reference, along with their respective portions of the specification.

Referring to claim 12, Holter et al. discloses all the limitations of the claimed method. Holter et al. discloses that laser etching may be used to mark the component. See col. 8, lines 38-40.

Referring to claim 15, Holter et al. discloses all the limitations of the claimed method. Holter et al. discloses that the fiber optic indicia may comprise light sensitive indicia.

Referring to claims 16-18 and 20, Holter et al. discloses all the limitations of the claimed method. Holter et al. discloses that information consists of optical characteristics of the component, such as dimensions and performance data. See col. 8, lines 49-62.

Referring to claims 21-23, Holter et al. discloses all the limitations of the claimed method. Holter et al. discloses a method of marking a ferrule, including the steps of: establishing a predetermined pattern of a fiber optic indicia, wherein the fiber optic indicia is associated with information about the fiber optic assembly; providing the ferrule for marking; preparing a predetermined portion of a surface of the ferrule for marking; marking the predetermined portion of the surface in accordance with the predetermined pattern of the fiber optic indicia, using the fiber optic indicia to select optical assemblies for precision mating. See Fig. 3-4, and col. 8, lines 54-57.

7. Claims 12 and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent Application Publication No. 2002/0003934 to Clark.

Referring to claims 12 and 13, Clark discloses all the limitations of the claimed method. Clark discloses a method of marking a fiber optic component including the steps of: establishing a predetermined pattern of a fiber optic indicia, wherein the fiber optic indicia is associated with information about the fiber optic component; providing the component for marking; preparing a predetermined portion of the surface of the component for marking; and marking the predetermined portion of the surface in accordance with the predetermined pattern of the fiber optic indicia. Clark also discloses that the indicia used to mark the component may include applying color or a combination of colors in order to identify the component. See the figures of the reference, along with their respective portions of the specification. Also see paragraph [0009] of the reference.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

10. Claims 5, 8 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,542,673 to Holter et al.

Referring to claim 5, Holter et al. discloses the indicia are located very near the passageway at the end face of the forward end of the ferrule. However, Holter et al. does not appear to disclose that location of the indicia are within at least about 150 microns from the opening of the at least one passageway. It would have been obvious to one having ordinary skill in the art at the time the invention was made to select any suitable location for the indicia on the face of the ferrule, since it has been held that where the general conditions of the claim are disclosed in the prior art, discovering an optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233. Therefore, discovering an optimum distance between the passageway and the indicia would involve only routine skill in the art.

Referring to claim 8, Holter et al. discloses all the limitations of the claimed invention, except Holter et al. does not appear to disclose the material that the ferrule is made from. It would have been obvious to one having ordinary skill in the art at the time

the invention was made to select any suitable material for making the ferrule, since it has been held that to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Referring to claim 19, Holter et al. discloses all the limitations of the claimed invention, except Holter et al. does not appear to specifically disclose that the performance data comprises at least one of the attenuation data, back reflection data, and insertion loss data. However, Holter et al. makes it clear that any additional information that the user may require. See col. 8, lines 49-62. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include any relevant performance information within the markings applied to the optical component. It would be within the general skill of a worker in the art to select known performance measurements to be included in the information marked on the component.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No. 6,402,392 to Yarita et al.

This reference discloses an optical ferrule body that includes indicia being formed on a portion of the ferrule surface.

U.S. Patent No. 3,807,025 to Gudmestad

This reference discloses a method for making indicia on the surface of an optical fiber ribbon.

12. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin S Wood whose telephone number is (571) 272-2364. The examiner can normally be reached on Monday-Thursday (7am - 5:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney B Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2874

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KSW



Brian Healy
Primary Examiner